

## ABSTRACT OF THE DISCLOSURE

A brushless motor capable of suppressing noise and vibration resulting from relative positional displacement between a sensor magnet and magnetic sensors caused by assembling errors has a 3-phase brushless motor with a 6-pole sensor magnet rotating integrally with a rotor and hole elements arranged with an angular spacing of  $20^\circ$  (mechanical angle). Position signals are obtained from output signals of the hole elements, with the phases of output signals of one or two hole elements being inverted.